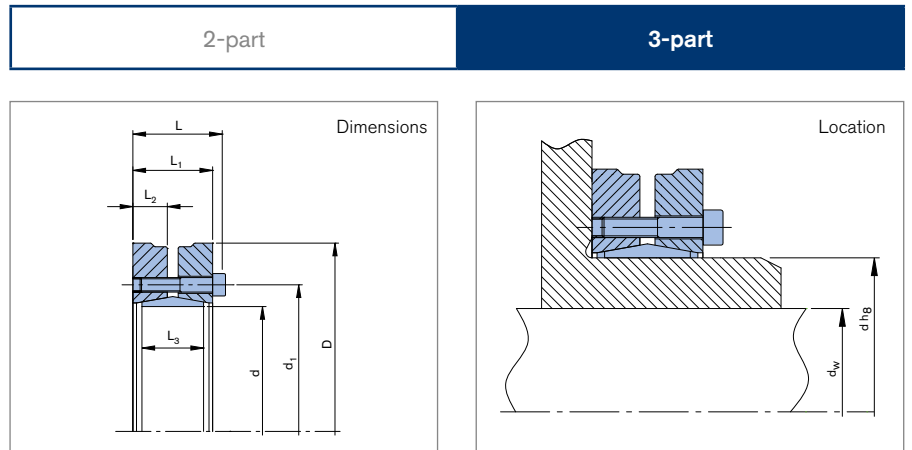


# Shrink Discs

## RINGFEDER® RfN 4061 stainless steel

Corrosion resistant series for high torques



Shrink Discs dimensions								Transmissible torques or axial forces				High-strength special screws ISO 4762					
d	x	D	d <sub>w</sub>	d <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	T <sub>A</sub>	T	F <sub>ax</sub>	P	σ <sub>v</sub>	n <sub>Sc</sub>	D <sub>G</sub>	G <sub>w</sub>	T <sub>max</sub>
mm		mm	mm	mm	mm	mm	mm	mm	Nm	Nm	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>		mm	kg	Nm
14	x	37	10	24	16	12	5	9	2,4	30	8	278	415	3	M4	0,1	37,5
			11							37	8		474				46
			12							48	10		557				60
16	x	41	12	27	20	15	6,25	12	4	70	15	336	509	4	M5	0,1	90
			13							90	18		575				110
			14							110	20		774				130
18	x	44	14	29	20	15	6,25	12	4	90	16	299	459	4	M5	0,2	110
			15							100	18		523				130
			16							120	20		705				160
20	x	46	15	32	22,5	17,5	7	12	4	110	20	336	462	5	M5	0,2	140
			16							140	22		497				170
			17							160	24		580				200
21	x	50	16	36	24	19	8	15	5	200	31	384	534	6	M5	0,2	250
			17							230	34		602				290
			18							260	37		746				330
24	x	50	19	36	24	19	8	15	5	240	32	336	495	6	M5	0,2	300
			20							270	35		554				340
			21							300	38		679				390
30	x	60	24	44	26,5	21,5	8,5	17	5	350	38	261	390	7	M5	0,2	450
			25							400	41		426				500
			26							440	43		492				560
36	x	72	28	52	29,5	23,5	10	18	12	590	53	303	390	5	M6	0,5	730
			30							690	58		438				860
			31							700	58		536				890

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**Shrink Discs RINGFEDER® RfN 4061 stainless steel**

Shrink Discs dimensions								Transmissible torques or axial forces		P	σ <sub>v</sub>	High-strength special screws			T <sub>max</sub>		
d	x	D	d <sub>w</sub>	d <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	T <sub>A</sub>			T	F <sub>ax</sub>	n <sub>Sc</sub>		D <sub>G</sub>	G <sub>w</sub>
mm			mm	mm	mm	mm	mm	mm	Nm	Nm	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	mm	kg		
38	x	72	29	55	32	26	10	21	12	700	62	295	378	6	M6	0,5	890
			30							770	65		394				970
			31							780	63		474				980
40	x	72	30	57	30,5	24,5	10,5	19	12	720	61	310	375	6	M6	0,5	900
			31							730	59		450				910
			32							790	62		460				990
44	x	80	32	63	32	26	11	20	12	800	63	312	429	7	M6	0,5	1000
			35							1000	73		444				1250
			36							1050	76		458				1350
48	x	80	36	68	32	26	11	22	12	900	65	260	371	7	M6	0,6	1150
			38							1050	72		380				1350
			40							1200	78		403				1550
50	x	90	38	70	33,5	27,5	11,5	22,5	12	1350	89	314	418	9	M6	0,9	1650
			40							1500	96		433				1900
			42							1700	103		467				2150
55	x	100	42	75	36,5	30,5	12	23	12	1300	78	248	343	8	M6	1,1	1600
			45							1550	87		359				1950
			48							1800	96		410				2300
62	x	110	48	86	36,5	30,5	12,5	23	12	2400	126	330	407	12	M6	1,3	3000
			50							2650	133		419				3300
			52							2800	136		482				3500
68	x	115	50	86	36,5	30,5	12	23,5	12	1900	95	245	314	10	M6	1,4	2350
			55							2250	104		367				2850
			60							2850	121		411				3600
75	x	138	55	100	40,5	32,5	13	25	30	2650	121	277	377	7	M8	2,3	3300
			60							3300	139		382				4150
			65							4050	158		416				5100
80	x	145	60	100	40,5	32,5	13	25	30	3200	126	259	353	7	M8	2,5	4000
			65							3900	143		358				4900
			70							4600	160		392				5750
85	x	155	60	114	48,5	40,5	16	30	30	4850	189	325	404	11	M8	3,5	6050
			65							5800	212		407				7250
			70							6800	235		427				8500
90	x	155	65	114	47	39	16	30	30	4800	174	274	353	10	M8	3,3	6000
			70							6050	195		356				7550
			75							7300	215		372				9150
95	x	170	65	127	55,1	47,1	19	34	30	5350	195	275	349	12	M8	4,7	6700
			70							6750	217		349				8450
			75							8150	240		355				10200
100	x	170	70	127	55,1	47,1	19	34	30	6950	202	261	331	12	M8	4,5	8700
			75							7600	223		331				9500
			80							9100	245		338				11350
110	x	185	75	145	63	53	21,5	42	59	8150	259	254	316	10	M10	6,3	10150
			80							10100	285		316				12600
			85							12200	296		357				15250
115	x	185	80	145	66	56	21,5	42	59	9500	267	243	302	10	M10	6,1	11850
			90							12100	302		342				15100
			95							14050	329		353				17550

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**Shrink Discs RINGFEDER® RfN 4061 stainless steel**

Shrink Discs dimensions									Transmissible torques or axial forces		P	σ <sub>v</sub>	High-strength special screws ISO 4762			T <sub>max</sub>	
d	x	D	d <sub>w</sub>	d <sub>1</sub>	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	T <sub>A</sub>	T			F <sub>ax</sub>	n <sub>Sc</sub>	D <sub>G</sub>		G <sub>w</sub>
mm			mm	mm	mm	mm	mm	mm	Nm	Nm	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	mm	kg		
125	x	215	85	160	64	54	23	42	59	11050	300	269	354	12	M10	8,7	13800
			90							13100	327		352				16350
			95							15150	355		352				18950
140	x	230	95	175	72,5	60,5	26	46	100	15100	365	263	336	10	M12	10,6	18850
			100							17550	395		335				21900
			105							20000	424		335				25000
165	x	290	115	210	87	71	31	56	250	31400	601	280	334	8	M16	21,7	39300
			120							35500	637		335				44400
			125							39400	664		348				49250
185	x	330	135	236	102,4	86,4	38,2	71	250	52500	786	246	307	10	M16	36	65600
			140							57350	828		310				71650
			145							62400	870		314				78000
195	x	350	140	246	102	86	38,2	71	250	65950	943	280	332	12	M16	40	82450
			150							77600	1035		338				97000
			155							83750	1081		345				104700
200	x	350	150	246	102	86	38,2	71	250	75000	1000	273	326	12	M16	39	93750
			155							81000	1045		330				101200
			160							87200	1091		337				109000

More sizes on request  
To continue see next page

## Shrink Discs RINGFEDER® RfN 4061 stainless steel

### Explanation

<b>d</b> = Inner diameter	<b>L<sub>3</sub></b> = Width of ring	<b>n<sub>sc</sub></b> = Quantity of screws
<b>D</b> = Outer diameter	<b>T<sub>A</sub></b> = Tightening torque of the clamping screws	<b>D<sub>G</sub></b> = Thread
<b>d<sub>w</sub></b> = Solid shaft diameter	<b>T</b> = Transmissible torque at given T <sub>A</sub>	<b>G<sub>w</sub></b> = Weight
<b>d<sub>1</sub></b> = Pitch circle diameter	<b>F<sub>ax</sub></b> = Transmissible axial force	<b>T<sub>max</sub></b> = Max. transmissible torque
<b>L<sub>1</sub></b> = Overall length (without screws)	<b>P</b> = Hub surface pressure	
<b>L<sub>2</sub></b> = Thrust ring width	<b>σ<sub>v</sub></b> = Equivalent stress in the hub	

### Ordering example

Series	d	D	Version
RfN 4061	95	170	SST

SST = Stainless steel

### Table Clearance

d <sub>w</sub>		ISO	Max. clearance S mm
above	up to		
6	10	H6/j6	0,011
10	18		0,014
18	30		0,017
30	50	H6/h6	0,032
50	80	H6/g6	0,048
80	120	H7/g6	0,069
120	180		0,079
180	250		0,090
250	315		0,101
315	400		0,111
400	500		0,123
500	630		0,136
630	800		0,154

#### Technical information

- Surface finishes: For shaft R<sub>a</sub> ≤ 3,2 μm
- Tolerances: For shaft see table
- When using a hollow shaft instead of a solid shaft please contact our Engineering-Team.
- Additional loads, e.g. tension, thrust or bending have to be taken into consideration accordingly
- Function values: The functional characteristics are valid with the screw tightening torque listed in the tables and the following assumed conditions: The locking screws are lubricated using MoS<sub>2</sub> (μ<sub>tot</sub>= 0,1). The tapered cones are lubricated using MoS<sub>2</sub> (μ = 0,05). The contact surfaces (d<sub>w</sub>) are in lightly oiled condition with coefficient of friction μ = 0,12. The hub and shaft materials have a modulus of elasticity of 210,000 N/mm<sup>2</sup>. (Lower values result in increased values for T and Fax with reduced tangential stress.) The maximum clearance S is being fully utilized. The shaft being used is solid, for hollow shaft applications the functional values will change. In cases where the assumed conditions do not apply then contact our Technical Department where we will be happy to assist you with your application.

Clearances considered for the calculation of the function values

Further information on  
**RINGFEDER® RfN 4061 stainless steel**  
 on [www.ringfeder.com](http://www.ringfeder.com)

#### Disclaimer of liability

All technical details and notes are non-binding and cannot be used as a basis for legal claims. The user is obligated to determine whether the represented products meet his requirements. We reserve the right carry out modifications at any time in the interests of technical progress.